

ABSTRACT OF THE DISCLOSURE

A head up display for firearms is provided, wherein a light valve is employed to create variable images in response to user input. The images from the light valve are entrained in an illuminating beam which intersects a diffractive optic. The diffractive optic includes a recorded infinite focal plane which is reconstructed by the illuminating beam, thereby displaying the image from the light valve at an infinite focal plane which is readily viewed by a user looking through the diffractive optic.